**Nazmus Sakib**

Department of Computer Science @ University of Colorado, Colorado Springs (UCCS)

1420 Austin Bluffs Pkwy Colorado Springs, CO USA 80918

+1 (719) 412-8216 nsakib@uccs.edu

**Summary**

* Graduate Research Assistant (GRA), PhD in Security at UCCS
* Research Interest: Security, Networking, Blockchain, Distributed System, Machine Learning
* Google Scholar: [**https://scholar.google.com/citations?hl=en&user=tAkzzeoAAAAJ**](https://scholar.google.com/citations?hl=en&user=tAkzzeoAAAAJ)
* Citations - 111

**Education**

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| **Ph.D. in Security** | *Spring 23-continue* |
| *University of Colorado, Colorado Springs* |  |
| **M.S in Computer Science (Research)** | *2018–2020* |
| *University of Malaya, Malaysia* |  |
| **B.Sc. (Engineering) in Computer Science and Engineering** | *2008–2011* |
| *Shahjalal University of Science and Technology, Bangladesh* |  |

**Professional Appointments**

Academic, Research, and Industry

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| **Graduate Research Assistant** | *June 2023 to Continue* |
| Department of Computer Science |  |
| University of Colorado, Colorado Springs |  |
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| **CS Department Teaching Assistant** | *January-May, 2023* |
| *Department of Computer Science* |  |
| University of Colorado, Colorado Springs |  |
| **Research Assistant** | *2018-2019* |
| *Software Engineering Research Lab* |  |
| University of Malaya, Malaysia |  |
| **Assistant Professor, Department of Computer Science and** |  |
| **Engineering** | *2021-2022* |
| *Dhaka International University* |  |
| Dhaka, Bangladesh |  |
| **Lecturer, Department of Computer Science and Engineering** | *2014-2017* |
| *Dhaka International University* |  |
| Dhaka, Bangladesh |  |
| **Junior Software Engineer** | *2013* |
| *MicroMac Techno Valley Ltd*  Dhaka, Bangladesh |  |



1 | P a g e

**Awards and Honors**

* **Mentored Doctoral Fellowship (AY 24-25),** UCCS.
* **Research Fellow (2018)**, Bangabandhu Science and Technology Fellowship Trust, Ministry of Science and Technology, People's Republic of Bangladesh.

**Publications**

Running Projects

1. Security Investigation of Address Manager in Bitcoin P2P Network. **Project Lead.**
2. Machine Learning Approach to Reputation Management in Bitcoin Peer-to-Peer Network. **Project Lead.**

Peer Reviewed Journals:

1. Islam, Amanul, Fazidah Othman, **Nazmus Sakib**, and Hafiz Md Hasan Babu. "Prevention of shoulder-surfing attacks using shifting condition using digraph substitution rules." arXiv preprint arXiv:2305.06549 (2023).

https://arxiv.org/abs/2305.06549

1. **Sakib, Nazmus**, et al. "A hybrid personalized scientific paper recommendation approach integrating public contextual metadata." **IEEE Access** 9 (2021): 83080-83091.

https://ieeexplore.ieee.org/abstract/document/9447723

1. **Sakib, Nazmus**, et al. "A collaborative approach toward scientific paper recommendation using citation context." **IEEE Access** 8 (2020): 51246-51255.

https://ieeexplore.ieee.org/abstract/document/9035495

Peer Reviewed Conferences:

1. Amanul Islam, **Nazmus Sakib**, Kelei Zhang, Simeon Wuthier, and Sang-Yoon Chang. "Network Fingerprinting Using Machine Learning for Anonymous Networking Detection in Cryptocurrency". **Accepted** in IEEE Consumer Communications and Networking Conference (CCNC), 2025.
2. **Sakib, Nazmus**, Simeon Wuthier, Xiaobo Zhou, and Sang-Yoon Chang. "From Slow Propagation to Partition: Analyzing Bitcoin Over Anonymous Routing." In IEEE International Conference on Blockchain and Cryptocurrency ICBC. IEEE, 2024.

https://ieeexplore.ieee.org/abstract/document/10634476

1. Wuthier, S., **Sakib, Nazmus**, & Chang, S. Y. (2024, January). Positive Reputation Score for Bitcoin P2P Network. In 2024 IEEE 21st Consumer Communications & Networking Conference (CCNC). IEEE.

<https://ieeexplore.ieee.org/abstract/document/10454756>

1. Hossain, Md Shamim, and **Nazmus Sakib**. "Renal cell cancer nuclei segmentation from histopathology image using synthetic data." 2020 16th IEEE International Colloquium on Signal Processing & Its Applications (**CSPA**). IEEE, 2020.

https://ieeexplore.ieee.org/abstract/document/9068701

1. Rahman, Md Mahabubur, Md Masud Rana, Md Shamim Anower, **Nazmus Sakib**, Kisalaya Chakrabatri, and Alok Kumar Paul. "An SPR-based optical biosensor with shared plasmonic materials and optimized graphene layer: An angular interrogation approach." In 2020 IEEE Region 10 Symposium (**TENSYMP**), pp. 1680-1683. IEEE, 2020.

https://ieeexplore.ieee.org/abstract/document/9230632

2 | P a g e

**Dissertations**

1. Thesis: “**A Personalized Scientific Paper Recommendation Model Using Contextual Information**" under the supervision of Dr. Rodina Binti Ahmad, Associate Professor, Department of Software Engineering, University of Malaya.”
2. Thesis: “**E-Government Model in Bangladesh: An NID Based Framework**" under the supervision of Israt Jahan, Lecturer, Department of Computer Science and Engineering, Shahjalal University of Science and Technology.”

**Selected Talk**

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| February 28, 2020 | *Renal Cell Cancer Nuclei Segmentation from Histopathology Image Using Synthetic Data*  *2020 16th IEEE International Colloquium on Signal Processing & Its Applications (CSPA)* |
| January 7, 2024 | Positive Reputation Score for Bitcoin P2P Network  *IEEE 21st Consumer Communications & Networking Conference (CCNC)* |

**Leadership Experience and Professional Service**

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| January 2023 - Present | *IEEE Student member* |
| January 2023 - Present | Member, Bangladesh Student Association at UCCS |

**Graduate Courses**

Fall-24 (Running):

**CS5220** Computer Communication (Units 3.00)

**CS5985** Cybersecurity Metrics (Units 3.0)

Spring-24 (Completed):

**CS5080** Reinforcement Learning (Units 3.00) – Earned Grade – **B+**

**CS5740** Networks, Crowds, and Market (Units 3.0) – Earned Grade – **B+**

Fall-23 (Completed):

**CS5910** Fundamental of Computer/Network Security (Units 3.00) - Earned Grade – **A**

**CS6000** Computer Science Research (Units 3.00) - - Earned Grade – **B+**

Spring-23 (Completed):

**CS5920** Introduction to Applied Cryptography (Units 3.00) - Earned Grade – **A CS5950** Homeland Security and Cyber Security (Units 3.00) - Earned Grade –**A**

**References**

Available on Request

3 | P a g e